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S/N 09/394,230

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kevin Anderson et al.

Examiner: Betty Forman

Serial No.: 09/394,230

Group Art Unit: 1655

Filed: September 13, 1999

Docket: 1451.003US1

Title: NUCLEIC ACID ANALYSIS USING COMPLETE N-MER ARRAYS

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Commissioner for Patents
Washington, D.C. 20231

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Applicant has reviewed the Office Action mailed on September 18, 2001. Please amend the above-identified patent application as follows.

This response is accompanied by a Petition, as well as the appropriate fee, to obtain a three-month extension of the period for responding to the Office action, thereby moving the deadline for response from December 18, 2001 to March 18, 2002.

IN THE CLAIMS

Please substitute the claim set in the appendix entitled Clean Version of Pending Claims for the previously pending claim set. The substitute claim set is intended to reflect amendment of previously pending claims 1, 11, 12 and 18. The specific amendments to individual claims are detailed in the following marked up set of claims.

1. (Twice amended) A method of determining the presence of a mutation in a target polynucleotide, comprising the steps of:
 - (a) providing at least two identical polynucleotide probe microarrays, wherein each probe comprises a double stranded region and a single-stranded n-mer overhang region such that the overhangs in each array constitute a complete set of n-mers, wherein each n-mer is at least 8 nucleotides in length;
 - (b) hybridizing the target polynucleotide to said overhangs of probe polynucleotides in one microarray to generate a target hybridization pattern;
 - (c) hybridizing a reference polynucleotide to said overhangs of probe polynucleotides in a second microarray to generate a reference hybridization pattern; and
 - (d) determining the presence of a mutation in the target polynucleotide by comparing